

CBM CONTROLLER ASSEMBLY INSTALL NODE 1 FWD

OBJECTIVE:

This procedure installs four CBM Controller Assemblies at the Fwd CBM port location within Node 1.

LOCATION:

Installed: Node 1 Active CBM Docking Ring
Stowed: TBD

DURATION:

1 hour

PARTS:

CBM Controller Assembly (P/N 683-13621-3) (Same as Allied Signal P/N 2355260-1)
CBM Controller Assembly Storage Container

MATERIALS:

None

TOOLS REQUIRED:

Equipment Bag

Scopemeter

Kit E:

Ratchet 3/8" Drive

4" Ext 3/8" Drive

Kit C:

7/16" Socket, 3/8" Drive

Kit D:

5/32" Hex Head, 3/8" Drive

Kit G:

(30-200 in-lbs) Trq Wrench, 3/8" Drive

IVA Tool Box, Lid #1:

Static Wrist Tether

REFERENCED PROCEDURE(S):

None

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

1. Verify Primary, Secondary RPCs supplying applicable CBM are Op.

PCS

S&M

N1 Fwd CBM Display

'Controller Panel Assy Power/Data Status'

| | | | | |
|--|---|---|----|----|
| √RPCM N13B C RPC [X] Cntr Assy [Y] [X] = | 3 | 4 | 5 | 6 |
| [Y] = | 1 | 2 | 3 | 4 |
| √RPCM N14B A RPC [X] Cntr Assy [Y] [X] = | 2 | 3 | 14 | 15 |
| [Y] = | 1 | 2 | 3 | 4 |

CAUTION

Equipment contains parts sensitive to damage by Electrostatic Discharge (ESD).

2. Don static wrist tether.
Secure clip end to unpainted metal surface.

INSTALL

See Figure 1.

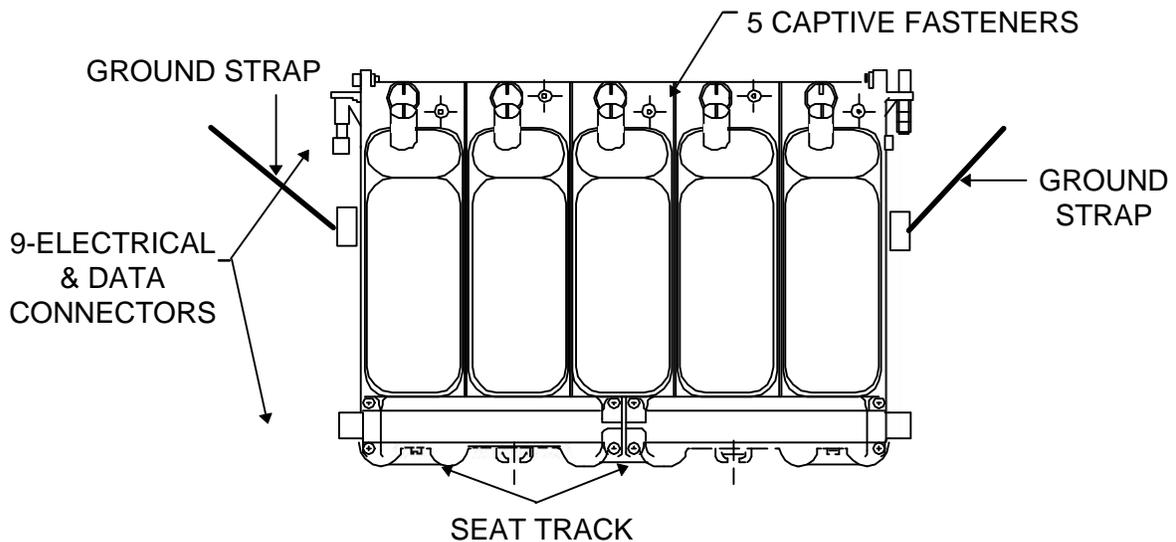


Figure 1.- CBM Controller Panel Assembly.

NOTE

Controller Assemblies were labeled when removed. Position 1 is Overhead.

3. Mount each Controller Assembly in its labeled position (1,2,3,4). Tighten fasteners (five per Assembly), torque to 100 ± 5 inch pounds (Ratchet 3/8" Drive, 7/16" Socket, (30-200 in-lbs) Trq Wrench).

4. Connect all Controller Assembly ground straps (two per Assembly) (Ratchet 3/8" Drive, 4" Ext, 5/32" Hex Head).
5. Check for continuity between casing of each Controller Assembly module (two per Assembly) and Node 1 structure (Scopemeter).

Table 1.- Node 1 Fwd CBM Controller Power/Data Cables

| Cable | Plug No. | Receptacle No. | Harness No. |
|--------------------------|----------|----------------|-------------|
| Controller Assy 1 | | | |
| Capture Latch | P1 | J5 | TBD |
| Powered Bolt | P1 | J6 | TBD |
| Powered Bolt | P1 | J7 | TBD |
| Powered Bolt | P1 | J8 | TBD |
| Powered Bolt | P1 | J9 | TBD |
| Primary Power | P1 | J1 | W720 |
| Secondary Power | P1 | J3 | W722 |
| 1553 Bus Data | P1 | J2 | W721 |
| 485 Bus Data | P1 | J4 | W723 |
| Controller Assy 2 | | | |
| Capture Latch | P1 | J5 | TBD |
| Powered Bolt | P1 | J6 | TBD |
| Powered Bolt | P1 | J7 | TBD |
| Powered Bolt | P1 | J8 | TBD |
| Powered Bolt | P1 | J9 | TBD |
| Primary Power | P2 | J1 | W720 |
| Secondary Power | P2 | J3 | W722 |
| 1553 Bus Data | P2 | J2 | W721 |
| 485 Bus Data | P2 | J4 | W723 |
| Controller Assy 3 | | | |
| Capture Latch | P1 | J5 | TBD |
| Powered Bolt | P1 | J6 | TBD |
| Powered Bolt | P1 | J7 | TBD |
| Powered Bolt | P1 | J8 | TBD |
| Powered Bolt | P1 | J9 | TBD |
| Primary Power | P3 | J1 | W720 |
| Secondary Power | P3 | J3 | W722 |
| 1553 Bus Data | P3 | J2 | W721 |
| 485 Bus Data | P3 | J4 | W723 |
| Controller Assy 4 | | | |
| Capture Latch | P1 | J5 | TBD |
| Powered Bolt | P1 | J6 | TBD |
| Powered Bolt | P1 | J7 | TBD |
| Powered Bolt | P1 | J8 | TBD |
| Powered Bolt | P1 | J9 | TBD |
| Primary Power | P4 | J1 | W720 |
| Secondary Power | P4 | J3 | W722 |
| 1553 Bus Data | P4 | J2 | W721 |
| 485 Bus Data | P4 | J4 | W723 |

6. Mate all CBM controller power/data cables (nine per controller).
See Table 1.

POST MAINTENANCE

7. Stow Controller Assembly storage containers, tools, equipment.